

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A system for managing video teleconferencing devices configured to exchange audio/video data, the system comprising:

a management adapter accessible to a user interface, the management adapter having a list that identifies the video teleconferencing devices configured to exchange audio/video data; and

a device access layer interfaced with the management adapter and the video teleconferencing devices, the device access layer representing the video teleconferencing devices as objects to support management of the video teleconferencing devices through the management adapter during set-up or conduct of an active video teleconference, wherein the video teleconferencing devices have plural video teleconferencing types, the device access layer representing each type of video teleconferencing device as an object class.

Claim 2 (Previously Presented): The system of Claim 1 wherein the device access layer represents the video teleconferencing devices as Management Beans.

Claim 3 (Previously Presented): The system of Claim 2 wherein each video teleconferencing device communicates with the network through one of plural protocols, the Management Bean for a video teleconferencing device communicating with the video teleconferencing device in the protocol associated with the video teleconferencing device.

Claim 4 (Original): The system of Claim 3 wherein the Management Beans communicate with the management adapter using a common protocol.

Claim 5 (Canceled).

Claim 6 (Currently Amended): The system of Claim 5-1 wherein a video teleconferencing device belongs to plural video teleconferencing types, the device access layer representing the video teleconferencing device as plural objects, each of the plural objects belonging to a class 5 corresponding to the plural video teleconferencing types.

Claim 7 (Currently Amended): The system of Claim 5-1 wherein a video teleconferencing device type comprises an endpoint type.

Claim 8 (Currently Amended): The system of Claim 5-1 wherein a video teleconferencing device type comprises an MCU type.

Claim 9 (Currently Amended): The system of Claim 5-1 wherein a video teleconferencing device type comprises a gatekeeper type.

Claim 10 (Currently Amended): The system of Claim 5-1 wherein a video teleconferencing device comprises a gateway type.

Claim 11 (Canceled).

Claim 12 (Previously Presented): The system of Claim 1 wherein the device access layer comprises:

a Management Bean server having Management Bean objects that correspond to the video teleconferencing devices, each Management Bean object encapsulating attributes that support access to a video network device.

Claim 13 (Previously Presented): The system of Claim 1 wherein the video teleconferencing devices comprise:

one or more of plural device types, each device type having a common interface defined by a Management Bean class.

Claim 14 (Previously Presented): The system of Claim 13 further comprising: first and second video teleconferencing devices interfaced with the device access layer, the first and second video teleconferencing devices having a common device type represented by a common Management Bean class, the first video network device communicating with a first Management Bean by a first format, the second video device communicating with a second Management Bean by a second format, the first and second Management Beans communicating with the management adapter by a common format.

Claim 15 (Currently Amended): A method for communicating with first and second video teleconferencing devices configured to exchange audio/video data and having corresponding first and second communication formats, the method comprising:

dividing the video teleconferencing devices into types of video teleconferencing devices;

establishing an object class for each type of video teleconferencing device;
interfacing with a management platform through a management interface format to identify the video teleconferencing devices;

associating the first video teleconferencing device with a first object and the second video teleconferencing device with a second object;

translating communication to the first video teleconferencing device with the first object from the interface format to the first communication format;

translating communication to the second video teleconferencing device with the second object from the interface format to the second communication format; and

sending audio/video data from one of said first and second video teleconferencing devices to another of said first and second video teleconferencing devices.

Claim 16 (Original): The method of Claim 15 wherein the first and second objects comprise Management Beans.

Claim 17 (Original): The method of Claim 15 wherein the management interface format comprises SNMP.

Claim 18 (Canceled).

Claim 19 (Currently Amended): The method of Claim 18-15 wherein each type of video teleconferencing device has a common interface for exchanging data between an external interface and objects of the class associated with the type of video teleconferencing device.

Claim 20 (Previously Presented): A method for interfacing an SNMP management application with plural video teleconferencing devices having disparate native interface protocols, the method comprising:

representing each video teleconferencing device as a Management Bean stored on a server;

providing an SNMP management instruction for a video teleconferencing device to an SNMP adapter;

communicating the SNMP management instruction using the SNMP adapter as a management bean client in communication with the server; and

communicating the SNMP management instruction from the server through the management bean representing the video teleconferencing device to the video teleconferencing device in a native protocol of the device; and

sending audio/video data from one of said plural video teleconferencing devices to another of said plural video teleconferencing devices.

Claim 21 (Previously Presented): The method of Claim 20 further comprising:
associating the video teleconferencing device receiving the SNMP management instruction with an IP address; and

communicating a second SNMP management instruction to the video teleconferencing device with the IP address.

Claim 22 (Previously Presented): The method of Claim 20 further comprising:
listing the video teleconferencing devices in a MIB; and
associating the video teleconferencing devices with IP addresses with the SNMP adapter.

Claim 23 (Previously Presented): The method of Claim 20 further comprising:

communicating between the management bean client and the server with standardized attributes defined for each video teleconferencing device.

Claim 24 (Canceled).

Claim 25 (Previously Presented): A system for interfacing plural video teleconferencing devices with an application through an SNMP interface, the plural video teleconferencing devices having disparate native protocols, the system comprising:

an adapter in communication with the application to accept SNMP instructions from the application for a video teleconferencing device; and
an agent in communication with the adapter, the agent representing the video teleconferencing device as an object having attributes,

wherein the adapter and agent cooperate to convert the SNMP instructions to the native protocol with the video teleconferencing device object attributes translated into requests to the video teleconferencing device in a native protocol of the video teleconferencing device during set-up or conduct of an active video teleconference.

Claim 26 (Canceled).

Claim 27 (Currently Amended): A method for managing a video network having plural video teleconferencing devices, the method comprising:

dividing the video teleconferencing devices into types of video teleconferencing devices;
establishing an object class for each type of video teleconferencing device;

representing each of said plural video teleconferencing devices as an object having attributes;

communicating management instructions to the objects of the plural video teleconferencing devices;

translating object attributes of the communication instructions into device-specific instructions to manage one or more of the plural video teleconferencing devices; and

sending audio/video data from one of said plural video teleconferencing devices to another of said plural video teleconferencing devices.

Claim 28 (Previously Presented): The method of Claim 27 further comprising:

listing the attributes of an object that represents a video teleconferencing device; and selecting one or more attributes to create a MIB for the video teleconferencing device.

Claim 29 (Previously Presented): The method of Claim 28 further comprising:

selecting one or more variables from one or more pre-existing MIBs associated with the video teleconferencing device for inclusion with the created MIB.

Claim 30 (Previously Presented): The method of Claim 28 wherein the created MIB cooperates with a management application for communicating management instructions to the object associated with the video teleconferencing device.

Claim 31 (Original): The method of Claim 30 wherein the communication instructions comprises SNMP management instructions.

Claim 32 (Original): The method of Claim 31 wherein the object comprises a management bean.

Claim 33 (Original): The method of Claim 28 wherein the created MIB consists of read-only variables.

Claim 34 (Original): The method of Claim 28 wherein the created MIB comprises variables for a restricted set of users.

Claim 35 (Original): The method of Claim 27 wherein the device specific instructions comprise non-SNMP instructions.

Claim 36 (Previously Presented): A system for managing a video network having plural video teleconferencing devices, the system comprising:

plural objects, each object having attributes to represent a video teleconferencing network device;

one or more lists of the attributes;

one or more MIB having variables of the video teleconferencing network device; and

a MIB summation engine operational to select one or more attributes and one or more variables to dynamically create a MIB for the video teleconferencing device during set-up or conduct of an active video teleconference.

Claim 37 (Original): The system of Claim 36 wherein the created MIB comprises a structure associated with a predetermined and restricted set of users.

Claim 38 (Original): The system of Claim 37 wherein the structure comprises a tiered folder structure.

Claim 39 (Original): The system of Claim 36 wherein the created MIB comprises read only variables.

Claim 40 (Previously Presented): The system of Claim 36 further comprising:
a management application associated with the video network and operational to manage the video teleconferencing devices.

Claim 41 (Original): The system of Claim 40 wherein the management application comprises an SNMP application.

Claim 42 (Previously Presented): The system of Claim 41 wherein the created MIB cooperates with the management application to manage the video teleconferencing network device.

Claim 43 (Previously Presented): The system of Claim 42 wherein the object translates instructions from the management application to a protocol native to the network video teleconferencing device.

Claim 44 (Original): The system of Claim 43 wherein the object comprises a management bean.

Claim 45 (Previously Presented): A method for managing disparate video teleconferencing devices with an SNMP application, the disparate video teleconferencing devices having disparate native protocols, the method comprising:

representing the disparate video teleconferencing devices as objects having attributes, an object translating instructions from the SNMP application to a native protocol of a video teleconferencing network device associated with the object;

dynamically creating a MIB for the video teleconferencing network device from selected attributes of the object associated with the video network device;

accessing the dynamically created MIB with the SNMP application to manage the video teleconferencing network device; and

sending audio/video data from one of the video teleconferencing devices to another video teleconferencing device.

Claim 46 (Previously Presented): The method of Claim 45 wherein dynamically creating further comprises:

dynamically creating the MIB from selected variables of pre-existing MIBs associated with the video teleconferencing network device.

Claim 47 (Original): The method of Claim 45 further comprising:
creating a translator table to associate the attributes with the dynamically created MIB.

Claim 48 (Original): The method of Claim 45 wherein the SNMP application comprises HP Openview.

Claim 49 (Original): The method of Claim 45 wherein dynamically creating the MIB further comprises:

selecting attributes for inclusion in the MIB to customize the MIB for a specific user.